

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	"10/583714"	US-PGPUB; USPAT	OR	OFF	2010/01/21 07:38
S2	1	("6616741").PN.	US-PGPUB; USPAT	OR	OFF	2010/01/21 07:39
S5	2980	(dainippon).as.	US-PGPUB; USPAT	OR	OFF	2010/01/21 08:34
S6	212	(Fukuda near5 Masanobu).in. OR (Kouyama near5 Tatsuya).in. OR (Takahashi near5 Jun).in. OR (Yano near5 Kenkichi).in.	US-PGPUB; USPAT	OR	OFF	2010/01/21 08:35
S7	2	("20030151028"   "6616741").PN.	US-PGPUB; USPAT	OR	OFF	2010/01/21 08:38
S8	34	S6 AND ink	US-PGPUB; USPAT	OR	ON	2010/01/21 08:41
S9	0	S5 AND (ink) AND (leafing or non \$2leafing OR non adj leafing) near5 pigment	US-PGPUB; USPAT	OR	ON	2010/01/21 08:42
S10	159	(ink) AND (leafing or non\$2leafing OR non adj leafing) near5 pigment	US-PGPUB; USPAT	OR	ON	2010/01/21 08:43
S11	2079	((523/160) or (523/161)).CCLS.	US-PGPUB; USPAT	OR	OFF	2010/01/21 08:43
S12	161	(ink OR S11) AND (leafing or non \$2leafing OR non adj leafing) near5 pigment	US-PGPUB; USPAT	OR	ON	2010/01/21 08:43
S14	3377	(leafing or non\$2leafing OR non adj leafing OR metal near5 flake OR metallic near5 flake) near5 pigment	US-PGPUB; USPAT	OR	ON	2010/01/21 08:44
S15	991	(ink OR S11) AND S14	US-PGPUB; USPAT	OR	ON	2010/01/21 08:44
S16	12	(ink OR S11) AND S14 AND (S14) with (thickness) with (diameter)	US-PGPUB; USPAT	OR	ON	2010/01/21 08:45
S17	13	(ink OR S11) AND S14 AND (S14) with (thickness) with (diameter Or size)	US-PGPUB; USPAT	OR	ON	2010/01/21 09:07
S18	16	(ink OR S11) AND S14 AND (S14) with (thickness) AND (S14) with (diameter Or size)	US-PGPUB; USPAT	OR	ON	2010/01/21 09:10
S19	3	S18 NOT S17	US-PGPUB; USPAT	OR	ON	2010/01/21 09:10
S20	8809	(leafing or non\$2leafing OR non adj leafing OR metal near5 flake OR metallic near5 flake OR metallic ) near5 pigment	US-PGPUB; USPAT	OR	ON	2010/01/21 09:16
S21	66	(ink OR S11) AND S20 AND (S20) with (thickness) AND (S20) with (diameter Or size)	US-PGPUB; USPAT	OR	ON	2010/01/21 09:16

S22	50	S21 NOT (S19 OR S18 OR S17)	US-PGPUB; USPAT	OR	ON	2010/01/21 09:16
S23	50	S22 AND (ink)	US-PGPUB; USPAT	OR	ON	2010/01/21 09:26
S24	0	(ik) AND (epicron\$ near5 ("B-4400" OR B adj "4400" OR "B4400"))	US-PGPUB; USPAT	OR	ON	2010/01/21 09:41
S25	12	(epicron\$ near5 ("B-4400" OR B adj "4400" OR "B4400"))	US-PGPUB; USPAT	OR	ON	2010/01/21 09:42
S26	1990	(ink OR S11 Or coating OR paint OR liquid near5 composition) AND S20 AND (binder near5 resin)	US-PGPUB; USPAT	OR	ON	2010/01/21 09:56
S27	2005	(ink near5 composition OR S11 Or coating near5 composition OR paint near5 composition OR liquid near5 composition) AND S20 AND (binder near5 resin)	US-PGPUB; USPAT	OR	ON	2010/01/21 09:56
S28	1462	(ink near5 composition OR S11 Or coating near5 composition OR paint near5 composition OR liquid near5 composition) AND S20 AND (binder near5 resin)	US-PGPUB; USPAT	OR	ON	2010/01/21 09:57
S29	89	(ink near5 composition OR S11 Or coating near5 composition OR paint near5 composition OR liquid near5 composition) AND S20 AND (binder near5 resin) with (acrylic near5 acid)	US-PGPUB; USPAT	OR	ON	2010/01/21 09:57
S30	1430	(ink near5 composition OR S11 Or coating near5 composition OR paint near5 composition OR liquid near5 composition) AND S20 AND (binder near5 resin) AND (solvent)	US-PGPUB; USPAT	OR	ON	2010/01/21 09:58
S31	1150	(ink near5 composition OR S11 Or coating near5 composition OR paint near5 composition OR liquid near5 composition) AND S20 AND (binder near5 resin) AND (organic near5 solvent)	US-PGPUB; USPAT	OR	ON	2010/01/21 09:58
S32	11	(ink near5 composition OR S11 Or coating near5 composition OR paint near5 composition OR liquid near5 composition) AND S20 AND (binder near5 resin) AND (solvent) AND (S14) with (thickness) AND (S14) with (diameter)	US-PGPUB; USPAT	OR	ON	2010/01/21 09:59
S33	1143	S31 NOT S32	US-PGPUB; USPAT	OR	ON	2010/01/21 10:09
S34	242	S33 AND (ink near5 composition)	US-PGPUB; USPAT	OR	ON	2010/01/21 10:10
S35	22	S33 AND (ink near5 composition) AND (pigment near5 diameter) AND (pigment near5 thickness)	US-PGPUB; USPAT	OR	ON	2010/01/21 10:10
S36	220	S34 NOT S35	US-PGPUB; USPAT	OR	ON	2010/01/21 10:18
S37	2844	(ink near5 composition) AND (acid adj anhydride)	US-PGPUB; USPAT	OR	ON	2010/01/21 10:20

S38	10	((ink near5 composition) AND (acid adj anhydride) with (storage near stability))	US-PGPUB; USPAT	OR	ON	2010/01/21 10:20
S39	10	((ink near5 composition) OR (S11)) AND (acid adj anhydride) with (storage near stability)	US-PGPUB; USPAT	OR	ON	2010/01/21 10:21
S40	1	S1 and (anhydride)	US-PGPUB; USPAT	OR	ON	2010/01/21 10:24
S41	648	((ink near5 composition) OR (S11)) AND (( Dodecenylsuccinic near5 anhydride) OR ( Trimellitic near5 anhydride))	US-PGPUB; USPAT	OR	ON	2010/01/21 10:28
S42	416	((ink near5 composition) OR (S11)) AND (( Dodecenylsuccinic near5 anhydride) OR ( Trimellitic near5 anhydride)) AND (anhdyride with storage stability)	US-PGPUB; USPAT	OR	ON	2010/01/21 10:28
S43	0	((ink near5 composition) OR (S11)) AND (( Dodecenylsuccinic near5 anhydride) OR ( Trimellitic near5 anhydride)) AND (anhdyride with storage near5 stability)	US-PGPUB; USPAT	OR	ON	2010/01/21 10:28
S44	416	((ink near5 composition) OR (S11)) AND (( Dodecenylsuccinic near5 anhydride) OR ( Trimellitic near5 anhydride)) AND (anhdyride with storage OR stability)	US-PGPUB; USPAT	OR	ON	2010/01/21 10:28
S45	44	((ink near5 composition) OR (S11)) AND (( Dodecenylsuccinic near5 anhydride) OR ( Trimellitic near5 anhydride)) AND (anhdyride with storage OR stability) AND S20	US-PGPUB; USPAT	OR	ON	2010/01/21 10:29
S46	0	((ink near5 composition) OR (S11)) AND S20 AND (binder) AND (binder near5 acid adj number)	US-PGPUB; USPAT	OR	ON	2010/01/21 10:31
S47	5	((ink ) OR (S11)) AND S20 AND (binder) AND (binder near5 acid adj number)	US-PGPUB; USPAT	OR	ON	2010/01/21 10:31
S48	75	((ink ) OR (S11)) AND S20 AND (binder Or resin OR polymer) AND (( binder OR resin OR polymer) near5 acid adj number)	US-PGPUB; USPAT	OR	ON	2010/01/21 10:32
S49	33	((ink near5 composition ) OR (S11)) AND S20 AND (binder Or resin OR polymer) AND (( binder OR resin OR polymer) near5 acid adj number)	US-PGPUB; USPAT	OR	ON	2010/01/21 10:32
S50	1	showa\$ near5 ("4010sw" OR "4010-sw" OR "4010" adj sw)	US-PGPUB; USPAT	OR	ON	2010/01/21 10:40
S51	1	aluminum near5 ("4010sw" OR "4010-sw" OR "4010" adj sw)	US-PGPUB; USPAT	OR	ON	2010/01/21 10:40
S52	8	TYFORCE\$	US-PGPUB; USPAT	OR	ON	2010/01/21 10:41
S53	260	(ink near5 composition) AND (resin near5 acid adj number)	US-PGPUB; USPAT	OR	ON	2010/01/21 10:41

S54	545	(ink near5 composition) AND (resin OR binder Or polymer) near5 (acid adj number)	US-PGPUB; USPAT	OR	ON	2010/01/21 10:42
S55	16	(ink near5 composition) AND (resin OR binder Or polymer) near5 (acid adj number) AND S20	US-PGPUB; USPAT	OR	ON	2010/01/21 10:42
S56	131	(S20) with (sputtering OR maleation OR aluminum adj vapor deposition)	US-PGPUB; USPAT	OR	ON	2010/01/21 11:07
S57	24	(S20) with (sputtering OR maleation OR aluminum adj vapor adj deposition)	US-PGPUB; USPAT	OR	ON	2010/01/21 11:07
S58	1	S1 AND (water)	US-PGPUB; USPAT	OR	ON	2010/01/21 11:12
S59	247	(ink adj composition) and (anhydride) AND (anhydride near5 (amount Or content OR "wt.%" OR "wt. %" OR "wt%" OR "wt %"))	US-PGPUB; USPAT	OR	ON	2010/01/21 11:18
S60	1	(S1) and (anhydride)	US-PGPUB; USPAT	OR	ON	2010/01/21 11:23
S61	60	(ink adj composition) and (anhydride) AND (anhydride near5 (amount Or content OR "wt.%" OR "wt. %" OR "wt%" OR "wt %")) AND (melamine)	US-PGPUB; USPAT	OR	ON	2010/01/21 11:26
S62	45	(S5) and (anhydride) AND (anhydride near5 (amount Or content OR "wt.%" OR "wt. %" OR "wt%" OR "wt %"))	US-PGPUB; USPAT	OR	ON	2010/01/21 11:28
S63	3	(S5) and (anhydride) AND (anhydride near5 (amount Or content OR "wt.%" OR "wt. %" OR "wt%" OR "wt %")) AND (ink near5 composition)	US-PGPUB; USPAT	OR	ON	2010/01/21 11:28
S64	2	(S5) and (anhydride) AND (anhydride near5 (amount Or content OR "wt.%" OR "wt. %" OR "wt%" OR "wt %")) AND (ink).ab.	US-PGPUB; USPAT	OR	ON	2010/01/21 11:29
S65	21	(S5) and (anhydride) AND (ink).ab.	US-PGPUB; USPAT	OR	ON	2010/01/21 11:30
S66	392	(metallic near5 ink) and (anhydride)	US-PGPUB; USPAT	OR	ON	2010/01/21 11:31
S67	34	(metallic near5 ink near5 composition) and (anhydride)	US-PGPUB; USPAT	OR	ON	2010/01/21 11:31
S68	2	"EP 1621586"	EPO; JPO; DERWENT	OR	OFF	2010/01/21 11:34
S69	2	"EP 1080810"	EPO; JPO; DERWENT	OR	OFF	2010/01/21 11:36
S70	2	"EP 1186638"	EPO; JPO; DERWENT	OR	OFF	2010/01/21 11:37
S71	0	"JP 6051758"	EPO; JPO; DERWENT	OR	OFF	2010/01/21 11:43
S72	1	"JP 06051758"	EPO; JPO; DERWENT	OR	OFF	2010/01/21 11:43

S73	2	"JP 60051758"	EPO; JPO; DERWENT	OR	OFF	2010/01/21 11:43
S74	2	"JP 2003342509"	EPO; JPO; DERWENT	OR	OFF	2010/01/21 11:44
S75	0	"JP 200246230"	EPO; JPO; DERWENT	OR	OFF	2010/01/21 11:44
S76	2	"JP 2002046230"	EPO; JPO; DERWENT	OR	OFF	2010/01/21 11:45
S77	2	"JP 2001139892"	EPO; JPO; DERWENT	OR	OFF	2010/01/21 11:45
S78	2	"JP 2001040263"	EPO; JPO; DERWENT	OR	OFF	2010/01/21 11:46
S79	2	"JP 2004035848"	EPO; JPO; DERWENT	OR	OFF	2010/01/21 11:46
S80	2	"JP 2002046230"	EPO; JPO; DERWENT	OR	OFF	2010/01/21 11:46
S81	1	"JP 05111911"	EPO; JPO; DERWENT	OR	OFF	2010/01/21 11:47
S82	0	"JP 50111911"	EPO; JPO; DERWENT	OR	OFF	2010/01/21 11:47
S83	1452	(ink adj composition) and (acid adj anhydride)	US-PGPUB; USPAT	OR	ON	2010/01/21 11:49
S84	71971	(ink adj composition) and (acid adj anhydride) AND (binder) wiht (melamine)	US-PGPUB; USPAT	OR	ON	2010/01/21 11:50
S85	67	(ink adj composition) and (acid adj anhydride) AND (binder) with (melamine)	US-PGPUB; USPAT	OR	ON	2010/01/21 11:50
S86	0	(ink adj composition) and (acid adj anhydride) with (ink near3 stability)	US-PGPUB; USPAT	OR	ON	2010/01/21 11:51
S87	1	(ink adj composition) and (anhydride) with (ink near3 stability)	US-PGPUB; USPAT	OR	ON	2010/01/21 11:51
S88	5	(cymel\$) near5 ("mmol")	US-PGPUB; USPAT	OR	ON	2010/01/21 12:57
S89	2980	(dainippon).as.	US-PGPUB; USPAT	OR	OFF	2010/01/21 12:58
S90	7	S89 AND ("mmol/kg")	US-PGPUB; USPAT	OR	ON	2010/01/21 12:58
S91	16	(ink near5 composition) AND (binder OR resin OR polymer) AND ("mmol/kg")	US-PGPUB; USPAT	OR	ON	2010/01/21 12:59
S92	204	S89 AND (acid adj anhydride)	US-PGPUB; USPAT	OR	OFF	2010/01/21 13:00
S93	268	S89 AND (acid adj anhydride)	US-PGPUB; USPAT	OR	ON	2010/01/21 13:00
S94	16	S89 AND (acid adj anhydride) AND (ink).ab.	US-PGPUB; USPAT	OR	ON	2010/01/21 13:00
S95	212	(Fukuda near5 Masanobu).in. OR (Kouyama near5 Tatsuya).in. OR (Takahashi near5 Jun).in. OR (Yano near5 Kenkichi).in.	US-PGPUB; USPAT	OR	OFF	2010/01/21 13:00

S96	17	(S89 OR S95) AND (acid adj anhydride) AND (ink).ab.	US-PGPUB; USPAT	OR	ON	2010/01/21 13:00
S97	22	(S89 OR S95) AND (anhydride) AND (ink).ab.	US-PGPUB; USPAT	OR	ON	2010/01/21 13:02
S98	22	S97 NOT "L17"	US-PGPUB; USPAT	OR	ON	2010/01/21 13:02
S99	5	S97 NOT S96	US-PGPUB; USPAT	OR	ON	2010/01/21 13:02
S100	539	(ink near5 composition).ab. AND (acid adj anhydride)	US-PGPUB; USPAT	OR	ON	2010/01/21 13:03
S101	164	(ink near5 composition).ab. AND (acid adj anhydride) with (acetic OR succinic OR trimellitic Or pyromellitic)	US-PGPUB; USPAT	OR	ON	2010/01/21 13:04
S102	8809	(leafing or non\$2leafing OR non adj leafing OR metal near5 flake OR metallic near5 flake OR metallic ) near5 pigment	US-PGPUB; USPAT	OR	ON	2010/01/21 13:06
S103	19	(ink near5 composition).ab. AND (acid adj anhydride) with (acetic OR succinic OR trimellitic Or pyromellitic) AND S102	US-PGPUB; USPAT	OR	ON	2010/01/21 13:06
S104	72	(ink near5 composition) AND (acid adj anhydride) with (acetic OR succinic OR trimellitic Or pyromellitic) AND S102	US-PGPUB; USPAT	OR	ON	2010/01/21 13:06
S105	375	S100 NOT S101	US-PGPUB; USPAT	OR	ON	2010/01/21 13:08
S106	75	S105 AND (non\$2aqueous OR non adj aqueous)	US-PGPUB; USPAT	OR	ON	2010/01/21 13:08
S107	0	melamine adj resin with ("mmol/kg")	US-PGPUB; USPAT	OR	ON	2010/01/21 13:13
S108	0	melamine with ("mmol/kg")	US-PGPUB; USPAT	OR	ON	2010/01/21 13:13
S109	5713	(dainippon).as. OR (dai near5 nippon).as.	US-PGPUB; USPAT	OR	ON	2010/01/21 13:14
S110	775	(dainippon near5 ink).as. OR (dai near5 nippon near5 ink).as.	US-PGPUB; USPAT	OR	ON	2010/01/21 13:14
S111	7	S110 AND "mmol/kg"	US-PGPUB; USPAT	OR	ON	2010/01/21 13:14
S112	16	S109 AND (urethane near5 carboxyl near5 group)	US-PGPUB; USPAT	OR	ON	2010/01/21 13:15
S113	2668	(takeda).as.	US-PGPUB; USPAT	OR	ON	2010/01/21 13:17
S114	44	(takeda).as. AND (urethane near5 resin)	US-PGPUB; USPAT	OR	ON	2010/01/21 13:17
S115	0	(takeda).as. AND (urethane near5 resin) AND "mmol"	US-PGPUB; USPAT	OR	ON	2010/01/21 13:17
S116	9	(takeda).as. AND (urethane near5 resin) AND ink	US-PGPUB; USPAT	OR	ON	2010/01/21 13:17
S117	28268	(dainippon near5 ink).as. OR (dai near5 nippon near5 ink).as.	EPO; JPO; DERWENT	OR	ON	2010/01/21 13:18

S118	11	S117 AND ("mmol/kg")	EPO; JPO; DERWENT	OR	ON	2010/01/21 13:18
S119	7	(ink near5 composition) AND resin with ("mmol/kg")	US-PGPUB; USPAT	OR	ON	2010/01/21 13:19
S120	16	(ink ) AND resin with ("mmol/kg")	US-PGPUB; USPAT	OR	ON	2010/01/21 13:20
S121	21	(ink ) AND (resin or polymer OR binder) with ("mmol/kg")	US-PGPUB; USPAT	OR	ON	2010/01/21 13:20
S122	2	(ink ) AND (polyurethane) with (carboxyl Or sulfonic) with ("mmol/ kg")	US-PGPUB; USPAT	OR	ON	2010/01/21 13:21
S123	10	(ink ) AND (resin or polymer Or binder) AND (carboxyl OR carboxylic OR amino Or sulfonic) with ("mmol/kg")	US-PGPUB; USPAT	OR	ON	2010/01/21 13:22
S124	79	(ink Or coating OR paint) AND (resin or polymer Or binder) AND (carboxyl OR carboxylic OR amino Or sulfonic) with ("mmol/kg")	US-PGPUB; USPAT	OR	ON	2010/01/21 13:22
S125	79	(ink Or coating OR paint) AND (resin or polymer Or binder) AND (carboxyl OR carboxylic OR amino Or sulfonic Or phosphoric) with ("mmol/kg")	US-PGPUB; USPAT	OR	ON	2010/01/21 13:23
S126	84	(ink Or coating OR paint) AND (carboxyl OR carboxylic OR amino Or sulfonic Or phosphoric) with ("mmol/kg")	US-PGPUB; USPAT	OR	ON	2010/01/21 13:23
S127	5	S126 NOT S125	US-PGPUB; USPAT	OR	ON	2010/01/21 13:23
S128	221	(ink Or coating OR paint) AND (carboxyl OR carboxylic OR amino Or sulfonic Or phosphoric) AND (group) with ("mmol/kg")	US-PGPUB; USPAT	OR	ON	2010/01/21 13:25
S129	23	(ink near5 composition).ab. AND (binder with (melamine with resin))	EPO; JPO; DERWENT	OR	ON	2010/01/21 13:53
S130	67	(ink near5 composition).ab. AND (binder with (melamine with resin))	US-PGPUB; USPAT	OR	ON	2010/01/21 13:54
S131	224	(ink near5 binder with (melamine with resin))	US-PGPUB; USPAT	OR	ON	2010/01/21 13:55
S132	0	(ink near5 binder with (melamine with resin)) with (non\$2aqueous OR non adj aqueous)	US-PGPUB; USPAT	OR	ON	2010/01/21 13:56
S133	3	(ink near5 binder with (melamine with resin)) AND (non\$2aqueous OR non adj aqueous) near5 (ink)	US-PGPUB; USPAT	OR	ON	2010/01/21 13:56
S134	64	( binder with (melamine with resin)) AND (non\$2aqueous OR non adj aqueous) near5 (ink)	US-PGPUB; USPAT	OR	ON	2010/01/21 13:56
S135	1	("4725317").PN.	US-PGPUB; USPAT	OR	OFF	2010/01/21 14:00
S136	5630	S135 wiht (second adj largest)	US-PGPUB; USPAT	OR	ON	2010/01/21 14:01

S137	0	S135 with (second adj largest)	US-PGPUB; USPAT	OR	ON	2010/01/21 14:01
S138	0	S135 with (second near5 largest)	US-PGPUB; USPAT	OR	ON	2010/01/21 14:01
S139	0	S135 with (largest)	US-PGPUB; USPAT	OR	ON	2010/01/21 14:01
S140	221	(ink).ab. AND ((metallic near5 pigment) OR (S102)) AND (diameter) with ("nm" or microns or "mu.m") AND (thickness) with ("nm" or microns OR "mu.m") AND (binder OR resin Or polymer OR copolymer Or thermoplastic)	US-PGPUB; USPAT	OR	ON	2010/01/21 14:25
S141	49	("2768909"   "2943955"   "3199999"   "3341291"   "3440075"   "3536520"   "3553001"   "3655418"   "3862297"   "3987156"   "4285726"   "4289745"   "4289746"   "4318747"   "4373963"   "4404254"   "4622073"   "4676838"   "4680130"   "4762568").PN. OR ("4826537"   "5091010").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/21 14:40
S142	17	S141 AND S102	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/21 14:41
S143	12	S141 AND S102 AND (diameter AND thickness)	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/21 14:41
S144	11	S141 AND S102 AND (diameter AND thickness) AND (ink)	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/21 14:41
S145	1	S141 AND S102 AND (diameter AND thickness) AND (ink) AND binder AND solvent	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/21 14:41
S146	299	(ink near5 composition) AND ((metallic near5 pigment) OR (S102)) AND (diameter) with ("nm" or microns or "mu.m") AND (thickness) with ("nm" or microns OR "mu.m") AND (binder OR resin Or polymer OR copolymer Or thermoplastic)	US-PGPUB; USPAT	OR	ON	2010/01/21 14:43
S147	299	S146 NOT S128	US-PGPUB; USPAT	OR	ON	2010/01/21 14:43
S148	1	("5133805").PN.	US-PGPUB; USPAT	OR	OFF	2010/01/21 15:20
S149	493346	iron adj oxide with (metallic adj pigment)	US-PGPUB; USPAT	OR	OFF	2010/01/21 16:14
S150	87	iron adj oxide with (metallic adj pigment)	US-PGPUB; USPAT	OR	OFF	2010/01/21 16:15
S151	21	iron adj oxide near5 (metallic adj pigment)	US-PGPUB; USPAT	OR	OFF	2010/01/21 16:17
S152	8	(paint adj composition).ab. and (binder with melamine adj resin)	US-PGPUB; USPAT	OR	ON	2010/01/21 16:22
S153	13	(paint adj composition).ab. and (binder with melamine)	US-PGPUB; USPAT	OR	ON	2010/01/21 16:23



S154	5	S153 NOT S152	US-PGPUB; USPAT	OR	ON	2010/01/21 16:23
S155	99	(paint).ab. and (binder with melamine adj resin)	US-PGPUB; USPAT	OR	ON	2010/01/21 16:24
S156	493357	iron adj oxide with (metal adj pigment)	US-PGPUB; USPAT	OR	OFF	2010/01/22 15:55
S157	263	iron adj oxide with (metal adj pigment)	US-PGPUB; USPAT	OR	ON	2010/01/22 15:55
S158	0	iron adj oxide with (metal adj pigment) AND (paint adj composition).ab.	US-PGPUB; USPAT	OR	ON	2010/01/22 15:55
S159	33	iron adj oxide with (metal adj pigment) and (paint near3 composition)	US-PGPUB; USPAT	OR	ON	2010/01/22 15:56
S160	89	iron adj oxide near5 (metal adj pigment)	US-PGPUB; USPAT	OR	ON	2010/01/22 16:00
S161	77	S160 NOT S159	US-PGPUB; USPAT	OR	ON	2010/01/22 16:00
S162	1	("5549739").PN.	US-PGPUB; USPAT	OR	OFF	2010/01/22 16:26
S168	74730	( "1,2,4-Benzenetricarboxylic" near5 acid near5 anhydride) OR ( Benzenetricarboxylic near5 anhydride) OR ( Trimellitic near5 acid near5 anhydride) OR ( Trimellitic near5 anhydride) OR ( "1,2,4-Benzenetricarboxylic" near5 anhydride) OR ( Dioxo near5 phthalancarboxylic near5 acid) OR ( Carboxyphthalic near5 anhydride) OR ( Anhydrottrimellitic near5 acid) OR ( Benzene near5 tricarboxylic near5 anhydride) OR ( Epon\$4 "9150") OR ( Trimellitic near5 acid near5 anhydride) OR ( Trimellitic near5 acid near5 cyclic near5 anhydride) OR ( Trimellitic near5 anhydride) OR ( "2,5-Furandione" near5 dodecenyl) OR ( Furandione near5 dodecenyl) OR ( Succinic near5 anhydride near5 dodecenyl) OR ( Dodecenyl near5 succinic near5 anhydride) OR ( DDSA) OR ( Dodecenylsuccinic near5 acid near5 anhydride) OR ( Dodecenylsuccinic near5 anhydride) OR ( Acetic near5 oxide) OR ( Acetyl near5 acetate) OR ( Acetyl near5 anhydride) OR ( Acetyl near5 ether) OR ( Acetyl near5 oxide) OR ( Ethanoic near5 anhydride) OR ( Succinic near5 anhydride) OR ( "2,5- Diketotetrahydrofuran") OR ( Diketotetrahydrofuran) OR ( Butanedioic near5 anhydride) OR ( Dihydro near5 furandione) OR ( Rikacid near5 "SA") OR ( Succinic	US-PGPUB; USPAT	OR	OFF	2010/01/25 10:57

		near5 acid near5 anhydride) OR ( Succinyl near5 anhydride) OR ( Succinyl near5 oxide) OR ( Tetrahydro near5 dioxofuran) OR ( Tetrahydro near5 furandione) OR ( Tetrahydrophthalic near5 anhydride) OR ( Cyclohexene near5 dicarboxylic near5 acid near5 anhydride) OR ( Tetrahydrophthalic near5 acid near5 anhydride) OR ( Tetrahydrophthalic near5 anhydride) OR ( Tetrahydro near5 isobenzofuran near5 dione) OR ( Tetrahydrophthalic near5 anhydride) OR ( Benzenetetracarboxylic near5 acid near5 dianhydride) OR ( Benzenetetracarboxylic near5 acid near5 dianhydride) OR ( Benzenetetracarboxylic near5 dianhydride) OR ( Pyromellitic near5 acid near5 anhydride) OR ( Pyromellitic near5 acid near5 dianhydride) OR ( Pyromellitic near5 anhydride) OR ( Pyromellitic near5 dianhydride) OR ( PMDA) OR ( "PMDA-M") OR (PMDA near5 "M")				
S169	2079	((523/160) or (523/161)).CCLS.	US-PGPUB; USPAT	OR	OFF	2010/01/25 10:59
S170	50407	(ink).ab. OR S169	US-PGPUB; USPAT	OR	OFF	2010/01/25 10:59
S171	2079	S170 AND S169	US-PGPUB; USPAT	OR	OFF	2010/01/25 10:59
S172	804	S170 AND S169 AND (ink near5 composition).ab.	US-PGPUB; USPAT	OR	ON	2010/01/25 10:59
S173	8809	(leafing or non\$2leafing OR non adj leafing OR metal near5 flake OR metallic near5 flake OR metallic ) near5 pigment	US-PGPUB; USPAT	OR	ON	2010/01/25 11:02
S174	55	S170 AND S169 AND (ink near5 composition).ab. AND S173	US-PGPUB; USPAT	OR	ON	2010/01/25 11:02
S175	178	S170 AND S169 AND S168	US-PGPUB; USPAT	OR	ON	2010/01/25 11:03
S176	14	S170 AND S169 AND S168 AND S173	US-PGPUB; USPAT	OR	ON	2010/01/25 11:03
S177	164	S175 NOT S176	US-PGPUB; USPAT	OR	ON	2010/01/25 11:04
S178	16	S177 AND (nonaqueous Or non \$2aqueous) near5 ink	US-PGPUB; USPAT	OR	ON	2010/01/25 11:10
S179	154	(ink near5 composition) AND (S173) AND S168	US-PGPUB; USPAT	OR	ON	2010/01/25 11:22
S180	342	(ink near5 composition) AND ((S173) OR ((metal Or metallic) near3 pigment)) AND S168	US-PGPUB; USPAT	OR	ON	2010/01/25 11:24
S181	4240	(ink near5 composition) AND ((gold OR copper OR silver OR metal Or metallic) near5 pigment)	US-PGPUB; USPAT	OR	ON	2010/01/25 12:50

S183	2630	(ink adj composition) AND ((gold OR copper OR silver OR metal Or metallic) near5 pigment)	US-PGPUB; USPAT	OR	ON	2010/01/25 12:50
S184	2283	(ink adj composition) AND ((gold OR copper OR silver OR metal Or metallic) near5 pigment) AND (solvent) AND (resin)	US-PGPUB; USPAT	OR	ON	2010/01/25 12:51
S185	836	(ink near5 composition).ab. AND ((gold OR copper OR silver OR metal Or metallic) near5 pigment) AND (solvent) AND (resin)	US-PGPUB; USPAT	OR	ON	2010/01/25 12:51
S186	45	(ink near5 composition).ab. AND ((gold OR copper OR silver OR metal Or metallic) near5 pigment) AND (solvent) AND (resin) AND (pigment with diameter) AND (pigment with thickness)	US-PGPUB; USPAT	OR	ON	2010/01/25 12:52
S187	203	(ink near5 composition) AND ((gold OR copper OR silver OR metal Or metallic) near5 pigment) AND (solvent) AND (resin) AND (pigment with diameter) AND (pigment with thickness)	US-PGPUB; USPAT	OR	ON	2010/01/25 12:54
S188	45	S187 NOT L^	US-PGPUB; USPAT	OR	ON	2010/01/25 12:54
S189	158	S187 NOT S186	US-PGPUB; USPAT	OR	ON	2010/01/25 12:54
S190	67	("2839378"   "4264664"   "4321087"   "5071597").PN. OR ("5672410").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/25 13:09
S191	31	(ink near5 composition) AND ((gold OR copper OR silver OR metal Or metallic) near5 pigment) AND (solvent) AND (resin) AND S190	US-PGPUB; USPAT	OR	ON	2010/01/25 13:09
S192	13	(ink near5 composition) AND ((gold OR copper OR silver OR metal Or metallic) near5 pigment) AND (solvent) AND (resin) AND S190 AND diameter AND thickness	US-PGPUB; USPAT	OR	ON	2010/01/25 13:10
S193	25	(ink near5 composition) AND ((gold OR copper OR silver OR metal Or metallic) near5 pigment) AND (solvent) AND (resin) AND (pigment with diameter) AND (pigment with thick)	US-PGPUB; USPAT	OR	ON	2010/01/25 13:11
S194	14	S193 NOT (S187 OR S189)	US-PGPUB; USPAT	OR	ON	2010/01/25 13:11
S195	2131	((523/160) or (523/161)).CCLS.	US-PGPUB; USPAT	OR	OFF	2010/07/07 09:44
S196	170	(ink OR S195) AND (leafing or non \$2leafing OR non adj leafing) near5 pigment	US-PGPUB; USPAT	OR	ON	2010/07/07 09:44
S197	3035	(dainippon).as.	US-PGPUB; USPAT	OR	OFF	2010/07/07 09:44

S198	223	(Fukuda near5 Masanobu).in. OR (Kouyama near5 Tatsuya).in. OR (Takahashi near5 Jun).in. OR (Yano near5 Kenkichi).in.	US-PGPUB; USPAT	OR	OFF	2010/07/07 09:44
S199	22	(S197 OR S198) AND (anhydride) AND (ink).ab.	US-PGPUB; USPAT	OR	ON	2010/07/07 09:44
S200	223	(Fukuda near5 Masanobu).in. OR (Kouyama near5 Tatsuya).in. OR (Takahashi near5 Jun).in. OR (Yano near5 Kenkichi).in.	US-PGPUB; USPAT	OR	OFF	2010/07/07 09:44
S201	34	S200 AND ink	US-PGPUB; USPAT	OR	ON	2010/07/07 09:44
S202	443	((ink near5 composition) OR (S195)) AND (( Dodecenylsuccinic near5 anhydride) OR ( Trimellitic near5 anhydride)) AND (anhdyride with storage OR stability)	US-PGPUB; USPAT	OR	ON	2010/07/07 09:44
S203	2131	((523/160) or (523/161)).CCLS.	US-PGPUB; USPAT	OR	OFF	2010/07/07 09:45
S204	3499	(leafing or non\$2leafing OR non adj leafing OR metal near5 flake OR metallic near5 flake) near5 pigment	US-PGPUB; USPAT	OR	ON	2010/07/07 09:45
S205	12	(ink OR S195) AND S204 AND (S204) with (thickness) with (diameter)	US-PGPUB; USPAT	OR	ON	2010/07/07 09:45
S206	18	(ink OR S195) AND S204 AND (S204) with (thickness) AND (S204) with (diameter Or size)	US-PGPUB; USPAT	OR	ON	2010/07/07 09:45
S207	9106	(leafing or non\$2leafing OR non adj leafing OR metal near5 flake OR metallic near5 flake OR metallic ) near5 pigment	US-PGPUB; USPAT	OR	ON	2010/07/07 09:45
S208	74	(ink OR S195) AND S207 AND (S207) with (thickness) AND (S207) with (diameter Or size)	US-PGPUB; USPAT	OR	ON	2010/07/07 09:45
S209	34	((ink near5 composition ) OR (S195)) AND S207 AND (binder Or resin OR polymer) AND (( binder OR resin OR polymer) near5 acid adj number)	US-PGPUB; USPAT	OR	ON	2010/07/07 09:45
S210	3035	(dainippon).as.	US-PGPUB; USPAT	OR	OFF	2010/07/07 09:45
S211	223	(Fukuda near5 Masanobu).in. OR (Kouyama near5 Tatsuya).in. OR (Takahashi near5 Jun).in. OR (Yano near5 Kenkichi).in.	US-PGPUB; USPAT	OR	OFF	2010/07/07 09:45
S212	292116	(vinlight4 OR tyforce\$ OR * (polurethane Or urethane) near5 ("E-760" Or "E760" Or "E" near2 "760"))	US-PGPUB; USPAT	OR	ON	2011/03/01 14:00
S213	10	(vinlight4 OR tyforce\$) OR ((polurethane Or urethane) near5 ("E-760" Or "E760" Or "E" near2 "760"))	US-PGPUB; USPAT	OR	ON	2011/03/01 14:00

S215	89173	(ink near5 composition OR coating near5 composition OR paint near5 composition OR liquid near5 composition) AND (binder near5 resin Or binder or resin) AND (organic near5 solvent)	US-PGPUB; USPAT	OR	ON	2011/03/01 14:06
S216	16481	(ink near5 composition OR coating near5 composition OR paint near5 composition OR liquid near5 composition) AND (binder near5 resin Or binder or resin) AND (organic near5 solvent) AND (phosphoric Or carboxyl Or sulfonic) with (resin Or binder Or copolymer)	US-PGPUB; USPAT	OR	ON	2011/03/01 14:07
S217	80	(ink near5 composition OR coating near5 composition OR paint near5 composition OR liquid near5 composition) AND (binder near5 resin Or binder or resin) AND (organic near5 solvent) AND (phosphoric Or carboxyl Or sulfonic) with (resin Or binder Or copolymer) with ("mmol/kg" Or "mmol")	US-PGPUB; USPAT	OR	ON	2011/03/01 14:07
S218	88	(ink near5 composition OR coating near5 composition OR paint near5 composition OR liquid near5 composition) AND (binder near5 resin Or binder or resin) AND (organic near5 solvent Or solvent) AND (phosphoric Or carboxyl Or sulfonic) with (resin Or binder Or copolymer) with ("mmol/kg" Or "mmol")	US-PGPUB; USPAT	OR	ON	2011/03/01 14:08
S219	111	(ink near5 composition OR coating near5 composition OR paint near5 composition OR liquid near5 composition) AND (binder near5 resin Or binder or resin) AND (organic near5 solvent Or solvent) AND (phosphoric Or carboxyl Or sulfonic Or acid near2 group) with (resin Or binder Or copolymer) with ("mmol/kg" Or "mmol")	US-PGPUB; USPAT	OR	ON	2011/03/01 14:08
S220	119	(ink near5 composition OR coating near5 composition OR paint near5 composition OR liquid near5 composition Or (paint).ab. Or (ink).ab. Or (coating).ab.) AND (binder near5 resin Or binder or resin) AND (organic near5 solvent Or solvent) AND (phosphoric Or carboxyl Or sulfonic Or acid near2 group) with (resin Or binder Or copolymer) with ("mmol/kg" Or "mmol")	US-PGPUB; USPAT	OR	ON	2011/03/01 14:23
S221	8	S220 NOT S219	US-PGPUB; USPAT	OR	ON	2011/03/01 14:23

S222	111	S220 NOT S221	US-PGPUB; USPAT	OR	ON	2011/03/01 14:43
S223	61	S222 AND (pigment)	US-PGPUB; USPAT	OR	ON	2011/03/01 14:44
S224	0	(ink near5 composition OR coating near5 composition OR paint near5 composition OR liquid near5 composition Or (paint).ab. Or (ink).ab. Or (coating).ab.) AND (binder near5 resin Or binder or resin) AND (organic near5 solvent Or solvent) AND (phosphoric Or carboxyl Or sulfonic Or acid near2 group) with (resin Or binder Or copolymer) with ("mol/kg" Or "mol") AND (pigment)	US-PGPUB; USPAT	OR	ON	2011/03/01 15:37
S225	2375	(ink near5 composition OR coating near5 composition OR paint near5 composition OR liquid near5 composition Or (paint).ab. Or (ink).ab. Or (coating).ab.) AND (binder near5 resin Or binder or resin) AND (organic near5 solvent Or solvent) AND (phosphoric Or carboxyl Or sulfonic Or acid near2 group) with (resin Or binder Or copolymer) with ("mol/kg" Or "mol") AND (pigment)	US-PGPUB; USPAT	OR	ON	2011/03/01 15:37
S226	21	(ink near5 composition OR coating near5 composition OR paint near5 composition OR liquid near5 composition Or (paint).ab. Or (ink).ab. Or (coating).ab.) AND (binder near5 resin Or binder or resin) AND (organic near5 solvent Or solvent) AND (phosphoric Or carboxyl Or sulfonic Or acid near2 group) with (resin Or binder Or copolymer) with ("mol/kg" Or "mol/g") AND (pigment)	US-PGPUB; USPAT	OR	ON	2011/03/01 15:38
S227	19	S226 NOT S223	US-PGPUB; USPAT	OR	ON	2011/03/01 15:38
S228	3094	(dainippon).as.	US-PGPUB; USPAT	OR	OFF	2011/03/01 15:39
S229	133	S228 AND ("mmol/kg" OR "mmol")	US-PGPUB; USPAT	OR	OFF	2011/03/01 15:39
S230	15	S228 AND ("mmol/kg" OR "mmol") AND (pigment)	US-PGPUB; USPAT	OR	OFF	2011/03/01 15:39
S231	25	S228 AND ("mmol/kg" OR "mmol") AND (pigment)	US-PGPUB; USPAT	OR	ON	2011/03/01 15:39
S232	24	S231 NOT (S223 OR S226)	US-PGPUB; USPAT	OR	ON	2011/03/01 15:40
S233	233	(Fukuda near5 Masanobu).in. OR (Kouyama near5 Tatsuya).in. OR (Takahashi near5 Jun).in. OR (Yano near5 Kenkichi).in.	US-PGPUB; USPAT	OR	OFF	2011/03/01 15:41

S234	227	S233 NOT S228	US-PGPUB; USPAT	OR	OFF	2011/03/01 15:42
S235	0	S234 AND ("mmol/kg" OR "mmol") AND (pigment)	US-PGPUB; USPAT	OR	ON	2011/03/01 15:42
S236	4	S234 AND ("mmol/kg" OR "mmol")	US-PGPUB; USPAT	OR	ON	2011/03/01 15:42
S237	209475	(succinic OR acetic OR phthalic OR trimellitic Or pyromellitic OR acid) near2 anhydride	US-PGPUB; USPAT	OR	ON	2011/03/01 15:45
S238	91	(ink near5 composition OR coating near5 composition OR paint near5 composition OR liquid near5 composition Or (paint).ab. Or (ink). ab. Or (coating).ab.) AND (binder near5 resin Or binder or resin) AND (organic near5 solvent Or solvent) AND (phosphoric Or carboxyl Or sulfonic Or acid near2 group) with (resin Or binder Or copolymer) with ("mmol/kg" OR "mol/kg" Or "mmol/g" OR "mol/g" or "mol" adj "per" adj "g" OR "mol" adj "per" adj "kg" OR "mmol" adj "per" adj "g" OR "mmol" adj "per" adj "kg")	US-PGPUB; USPAT	OR	ON	2011/03/01 15:48
S239	1548	"L29" NOT S220	US-PGPUB; USPAT	OR	ON	2011/03/01 15:49
S240	35	S238 NOT S220	US-PGPUB; USPAT	OR	ON	2011/03/01 15:49
S241	18	S231 AND S237	US-PGPUB; USPAT	OR	ON	2011/03/01 15:49
S242	432	(ink near5 composition OR coating near5 composition OR paint near5 composition OR liquid near5 composition Or (paint).ab. Or (ink). ab. Or (coating).ab.) AND (binder near5 resin Or binder or resin) AND (organic near5 solvent Or solvent) AND (phosphoric Or carboxyl Or sulfonic Or acid near2 group Or acid) with (resin Or binder Or copolymer) with ("mmol/kg" OR "mol/kg" Or "mmol/g" OR "mol/g" or "mol" adj "per" adj "g" OR "mol" adj "per" adj "kg" OR "mmol" adj "per" adj "g" OR "mmol" adj "per" adj "kg")	US-PGPUB; USPAT	OR	ON	2011/03/01 16:14
S243	370	S242 NOT (S229 Or S219 Or S220 OR S217)	US-PGPUB; USPAT	OR	ON	2011/03/01 16:15
S244	184	S243 AND S237	US-PGPUB; USPAT	OR	ON	2011/03/01 16:16

S245	150	(ink near5 composition OR coating near5 composition OR paint near5 composition OR liquid near5 composition Or (paint).ab. Or (ink).ab. Or (coating).ab.) AND (binder near5 resin Or binder or resin) AND (organic near5 solvent Or solvent) AND (phosphoric Or carboxyl Or sulfonic Or acid near2 group Or acid) with (resin Or binder Or copolymer) with ("mmol/kg" OR "mol/kg" Or "mmol/g" OR "mol/g" or "mol" adj "per" adj "g" OR "mol" adj "per" adj "kg" OR "mmol" adj "per" adj "g" OR "mmol" adj "per" adj "kg") AND (pigment)	US-PGPUB; USPAT	OR	ON	2011/03/01 16:16
S246	114	S245 NOT (S229 Or S219 Or S220 OR S217)	US-PGPUB; USPAT	OR	ON	2011/03/01 16:16
S247	55	S246 AND S237	US-PGPUB; USPAT	OR	ON	2011/03/01 16:23
S248	15505	(ink near5 composition OR coating near5 composition OR paint near5 composition OR liquid near5 composition Or (paint).ab. Or (ink).ab. Or (coating).ab.) AND (binder near5 resin Or binder or resin) AND (organic near5 solvent Or solvent) AND (phosphoric Or carboxyl Or sulfonic Or acid near2 group ) with (resin Or binder Or copolymer) AND S237	US-PGPUB; USPAT	OR	ON	2011/03/01 16:55
S249	11143	(ink near5 composition OR coating near5 composition OR paint near5 composition OR liquid near5 composition Or (paint).ab. Or (ink).ab. Or (coating).ab.) AND (binder near5 resin Or binder or resin) AND (organic near5 solvent Or solvent) AND (phosphoric Or carboxyl Or sulfonic Or acid near2 group ) with (resin Or binder Or copolymer) AND S237 AND (pigment)	US-PGPUB; USPAT	OR	ON	2011/03/01 16:55
S250	61114	(ink).ab. Or (coating).ab. AND (binder near5 resin Or binder or resin) AND (organic near5 solvent Or solvent) AND (phosphoric Or carboxyl Or sulfonic Or acid near2 group ) with (resin Or binder Or copolymer) AND S237 AND (pigment)	US-PGPUB; USPAT	OR	ON	2011/03/01 16:56
S251	1204	(ink).ab. AND (binder near5 resin Or binder or resin) AND (organic near5 solvent Or solvent) AND (phosphoric Or carboxyl Or sulfonic Or acid near2 group ) with (resin Or binder Or copolymer) AND S237 AND (pigment)	US-PGPUB; USPAT	OR	ON	2011/03/01 16:56



S252	903	(ink).ab. AND (binder near5 resin Or binder or resin) AND (organic near5 solvent Or solvent) AND (phosphoric Or carboxyl Or sulfonic Or acid near2 group ) with (resin Or binder ) AND S237 AND (pigment)	US-PGPUB; USPAT	OR	ON	2011/03/01 16:56
S253	900	S252 NOT (S238 OR S229)	US-PGPUB; USPAT	OR	ON	2011/03/01 16:57
S255	317	S253 aND (pigment) with (metal Or metallic)	US-PGPUB; USPAT	OR	ON	2011/03/01 16:58
S256	583	(ink near5 composition OR coating near5 composition OR paint near5 composition OR liquid near5 composition Or (paint).ab. Or (ink).ab. Or (coating).ab.) AND (binder near5 resin Or binder or resin) AND (organic near5 solvent Or solvent) AND (phosphoric Or carboxyl Or sulfonic Or acid near2 group ) with (resin Or binder Or copolymer) AND S237 AND (metallic near5 pigment Or metal near5 pigment Or leafing near5 pigment Or nonleafing near5 pigment Or non\$2leafing near5 pigment) AND (trimellitic adj anhydride)	US-PGPUB; USPAT	OR	ON	2011/03/01 17:12
S257	17	(ink near5 composition).ab. AND (binder near5 resin Or binder or resin) AND (organic near5 solvent Or solvent) AND (phosphoric Or carboxyl Or sulfonic Or acid near2 group ) with (resin Or binder Or copolymer) AND S237 AND (metallic near5 pigment Or metal near5 pigment Or leafing near5 pigment Or nonleafing near5 pigment Or non\$2leafing near5 pigment) AND (trimellitic adj anhydride)	US-PGPUB; USPAT	OR	ON	2011/03/01 17:13
S258	1	(ink near5 composition).ab. AND (binder near5 resin Or binder or resin) AND (organic near5 solvent Or solvent) AND (phosphoric Or carboxyl Or sulfonic Or acid near2 group ) with (resin Or binder Or copolymer) AND S237 AND (metallic near5 pigment Or metal near5 pigment Or leafing near5 pigment Or nonleafing near5 pigment Or non\$2leafing near5 pigment) AND (trimellitic adj anhydride) with (compound Of moiety)	US-PGPUB; USPAT	OR	ON	2011/03/01 17:14

S259	1	(ink near5 composition).ab. AND (binder near5 resin Or binder or resin) AND (organic near5 solvent Or solvent) AND (phosphoric Or carboxyl Or sulfonic Or acid near2 group ) with (resin Or binder Or copolymer) AND S237 AND (metallic near5 pigment Or metal near5 pigment Or leafing near5 pigment Or nonleafing near5 pigment Or non\$2leafing near5 pigment) AND (trimellitic adj anhydride) with (compound Or moiety)	US-PGPUB; USPAT	OR	ON	2011/03/01 17:14
S260	44	(ink near5 composition).ab. AND (binder near5 resin Or binder or resin) AND (organic near5 solvent Or solvent) AND (phosphoric Or carboxyl Or sulfonic Or acid near2 group ) with (resin Or binder Or copolymer) AND S237 AND (metallic near5 pigment Or metal near5 pigment Or leafing near5 pigment Or nonleafing near5 pigment Or non\$2leafing near5 pigment) AND (S237) with (compound Or moiety)	US-PGPUB; USPAT	OR	ON	2011/03/01 17:14
S261	121	(ink near5 composition).ab. AND (binder near5 resin Or binder or resin) AND (organic near5 solvent Or solvent) AND (phosphoric Or carboxyl Or sulfonic Or acid near2 group ) with (resin Or binder Or copolymer) AND S237 AND (metallic near5 pigment Or metal near5 pigment Or leafing near5 pigment Or nonleafing near5 pigment Or non\$2leafing near5 pigment) AND (S237)	US-PGPUB; USPAT	OR	ON	2011/03/01 17:30
S262	252978	(succinic OR acetic OR phthalic OR trimellitic Or pyromellitic OR acid or maleic) near2 anhydride	US-PGPUB; USPAT	OR	ON	2011/03/01 17:33
S263	145	(ink near5 composition).ab. AND (binder near5 resin Or binder or resin) AND (organic near5 solvent Or solvent) AND (phosphoric Or carboxyl Or sulfonic Or acid near2 group ) with (resin Or binder Or copolymer) AND S262 AND (metallic near5 pigment Or metal near5 pigment Or leafing near5 pigment Or nonleafing near5 pigment Or non\$2leafing near5 pigment)	US-PGPUB; USPAT	OR	ON	2011/03/01 17:33
S264	106621	S262 with (copolymer or polymer or monomer or resin or polyurethane Or urethane)	US-PGPUB; USPAT	OR	ON	2011/03/01 17:34
S265	40	S263 NOT S264	US-PGPUB; USPAT	OR	ON	2011/03/01 17:34

S266	624	(ink near5 composition) AND (binder near5 resin Or binder or resin) AND (organic near5 solvent Or solvent) AND (phosphoric Or carboxyl Or sulfonic Or acid near2 group ) with (resin Or binder Or copolymer) AND S262 AND (metallic near5 pigment Or metal near5 pigment Or leafing near5 pigment Or nonleafing near5 pigment Or non\$2leafing near5 pigment)	US-PGPUB; USPAT	OR	ON	2011/03/01 17:35
S267	98	S266 NOT S264	US-PGPUB; USPAT	OR	ON	2011/03/01 17:35
S268	58	S267 NOT S265	US-PGPUB; USPAT	OR	ON	2011/03/01 17:35
S269	252978	(succinic OR acetic OR phthalic OR trimellitic Or pyromellitic OR acid or maleic) near2 anhydride	US-PGPUB; USPAT	OR	ON	2011/03/02 12:58
S270	624	(ink near5 composition) AND (binder near5 resin Or binder or resin) AND (organic near5 solvent Or solvent) AND (phosphoric Or carboxyl Or sulfonic Or acid near2 group ) with (resin Or binder Or copolymer) AND S269 AND (metallic near5 pigment Or metal near5 pigment Or leafing near5 pigment Or nonleafing near5 pigment Or non\$2leafing near5 pigment)	US-PGPUB; USPAT	OR	ON	2011/03/02 12:58
S271	106621	S269 with (copolymer or polymer or monomer or resin or polyurethane Or urethane)	US-PGPUB; USPAT	OR	ON	2011/03/02 12:59
S272	145	(ink near5 composition).ab. AND (binder near5 resin Or binder or resin) AND (organic near5 solvent Or solvent) AND (phosphoric Or carboxyl Or sulfonic Or acid near2 group ) with (resin Or binder Or copolymer) AND S269 AND (metallic near5 pigment Or metal near5 pigment Or leafing near5 pigment Or nonleafing near5 pigment Or non\$2leafing near5 pigment)	US-PGPUB; USPAT	OR	ON	2011/03/02 12:59
S273	40	S272 NOT S271	US-PGPUB; USPAT	OR	ON	2011/03/02 12:59
S274	98	S270 NOT S271	US-PGPUB; USPAT	OR	ON	2011/03/02 12:59
S275	58	S274 NOT S273	US-PGPUB; USPAT	OR	ON	2011/03/02 12:59
S276	98	S270 NOT S271	US-PGPUB; USPAT	OR	ON	2011/03/02 12:59

S277	633	(ink near5 composition) AND (binder near5 resin Or binder or resin) AND (phosphoric Or carboxyl Or sulfonic Or acid near2 group ) with (resin Or binder Or copolymer) AND S269 AND (metallic near5 pigment Or metal near5 pigment Or leafing near5 pigment Or nonleafing near5 pigment Or nonleafing near5 pigment)	US-PGPUB; USPAT	OR	ON	2011/03/02 13:08
S278	98	S277 NOT S271	US-PGPUB; USPAT	OR	ON	2011/03/02 13:08
S279	2328	(ink near5 composition) AND (binder near5 resin Or binder or resin) AND (phosphoric Or carboxyl Or sulfonic Or acid near2 group ) with (resin Or binder Or copolymer) AND S269 AND (metallic near5 pigment Or metal near5 pigment Or leafing near5 pigment Or nonleafing near5 pigment Or nonleafing near5 pigment or pigment)	US-PGPUB; USPAT	OR	ON	2011/03/02 13:28
S280	387	S279 NOT S271	US-PGPUB; USPAT	OR	ON	2011/03/02 13:28
S281	289	S280 NOT S278	US-PGPUB; USPAT	OR	ON	2011/03/02 13:28
S282	2866	(ink near5 composition) AND (binder near5 resin Or binder or resin) AND (phosphoric Or carboxyl Or sulfonic Or acid near2 group or amino) with (resin Or binder Or copolymer) AND S269 AND (metallic near5 pigment Or metal near5 pigment Or leafing near5 pigment Or nonleafing near5 pigment Or nonleafing near5 pigment or pigment)	US-PGPUB; USPAT	OR	ON	2011/03/02 13:47
S283	522	S282 NOT S271	US-PGPUB; USPAT	OR	ON	2011/03/02 13:48
S284	424	S283 NOT S278	US-PGPUB; USPAT	OR	ON	2011/03/02 13:48
S285	135	S283 NOT (S278 Or S281)	US-PGPUB; USPAT	OR	ON	2011/03/02 13:48
S286	0	(succinic OR acetic OR phthalic OR trimellitic Or pyromellitic OR maleic) with (acid ) with ( anhydride near2 "thereof")	US-PGPUB; USPAT	OR	ON	2011/03/02 13:51
S287	135420	(succinic OR acetic OR phthalic OR trimellitic Or pyromellitic OR maleic) with (acid ) with ( anhydride )	US-PGPUB; USPAT	OR	ON	2011/03/02 13:51

S288	2137	(ink near5 composition) AND (binder near5 resin Or binder or resin) AND (phosphoric Or carboxyl Or sulfonic Or acid near2 group or amino) with (resin Or binder Or copolymer) AND S287 AND (metallic near5 pigment Or metal near5 pigment Or leafing near5 pigment Or nonleafing near5 pigment Or non\$2leafing near5 pigment or pigment)	US-PGPUB; USPAT	OR	ON	2011/03/02 13:51
S289	62901	S287 with (copolymer or polymer or monomer or resin or polyurethane Or urethane)	US-PGPUB; USPAT	OR	ON	2011/03/02 13:51
S290	398	S288 NOT S289	US-PGPUB; USPAT	OR	ON	2011/03/02 13:51
S291	151	S290 NOT (S273 OR S274 OR S275 OR S276 OR S278 Or S280 OR S281 OR S283 OR S284 OR S285)	US-PGPUB; USPAT	OR	ON	2011/03/02 13:52
S292	1780	(ink).ab. AND (binder near5 resin Or binder) AND S287 AND (metallic near5 pigment Or metal near5 pigment Or leafing near5 pigment Or nonleafing near5 pigment Or non \$2leafing near5 pigment or pigment)	US-PGPUB; USPAT	OR	ON	2011/03/02 13:56
S293	384	S292 NOT S289	US-PGPUB; USPAT	OR	ON	2011/03/02 13:56
S294	290	S293 NOT (S273 OR S274 OR S275 OR S276 OR S278 Or S280 OR S281 OR S283 OR S284 OR S285)	US-PGPUB; USPAT	OR	ON	2011/03/02 13:56
S295	2468	(oil OR solvent Or non\$2aqueous Or non adj aqueous) near5 (ink) AND (pigment) AND (binder) AND S287	US-PGPUB; USPAT	OR	ON	2011/03/02 14:11
S296	498	S295 NOT S289	US-PGPUB; USPAT	OR	ON	2011/03/02 14:11
S297	417	S296 NOT (S273 OR S274 OR S275 OR S276 OR S278 Or S280 OR S281 OR S283 OR S284 OR S285)	US-PGPUB; USPAT	OR	ON	2011/03/02 14:11
S298	0	S293 NOT (S273 OR S274 OR S275 OR S276 OR S278 Or S280 OR S281 OR S283 OR S284 OR S285 OR S294)	US-PGPUB; USPAT	OR	ON	2011/03/02 14:20
S299	226	S297 NOT (S273 OR S274 OR S275 OR S276 OR S278 Or S280 OR S281 OR S283 OR S284 OR S285 OR S294)	US-PGPUB; USPAT	OR	ON	2011/03/02 14:20
S300	66052	S287 with (copolymer or polymer or monomer or resin or polyurethane Or urethane or polyester)	US-PGPUB; USPAT	OR	ON	2011/03/02 14:23
S301	205	S299 NOT S300	US-PGPUB; USPAT	OR	ON	2011/03/02 14:23

S302	168	((oil OR solvent Or non\$2aqueous Or non adj aqueous) near5 (ink)). ab. AND (pigment) AND (binder) AND S287	US-PGPUB; USPAT	OR	ON	2011/03/02 14:25
S303	168	((oil OR solvent Or non\$2aqueous Or non adj aqueous) near5 (ink)). ab. AND (pigment Or metal near2 flake or metal near2 fragment) AND (binder) AND S287	US-PGPUB; USPAT	OR	ON	2011/03/02 14:25
S304	24	S303 NOT S300	US-PGPUB; USPAT	OR	ON	2011/03/02 14:26
S305	78862	S287 SAME (copolymer or polymer or monomer or resin or polyurethane Or urethane or polyester)	US-PGPUB; USPAT	OR	ON	2011/03/02 14:27
S306	12	S303 NOT S305	US-PGPUB; USPAT	OR	ON	2011/03/02 14:27
S307	249	((oil OR solvent Or non\$2aqueous Or non adj aqueous) near5 (ink)). ab. AND (pigment Or metal near2 flake or metal near2 fragment) AND (binder) AND (anhydride)	US-PGPUB; USPAT	OR	ON	2011/03/02 14:29
S308	93	S307 NOT S305	US-PGPUB; USPAT	OR	ON	2011/03/02 14:29
S309	81	S308 NOT S306	US-PGPUB; USPAT	OR	ON	2011/03/02 14:29
S310	328	((oil OR solvent Or non\$2aqueous Or non adj aqueous) near5 (ink)). ab. AND (pigment Or metal near2 flake or metal near2 fragment) AND (rsin or copolymer) AND (anhydride)	US-PGPUB; USPAT	OR	ON	2011/03/02 14:34
S311	121	S310 NOT S305	US-PGPUB; USPAT	OR	ON	2011/03/02 14:34
S312	52	S311 NOT (S308 Or S309)	US-PGPUB; USPAT	OR	ON	2011/03/02 14:35
S313	1132	(ink near2 composition).ab. AND (pigment Or metal near2 flake or metal near2 fragment) AND (resin or copolymer) AND (anhydride)	US-PGPUB; USPAT	OR	ON	2011/03/02 14:37
S314	519	S313 NOT S305	US-PGPUB; USPAT	OR	ON	2011/03/02 14:37
S315	486	S314 NOT (S308 Or S309)	US-PGPUB; USPAT	OR	ON	2011/03/02 14:37
S316	0	S314 NOT (S308 Or S309) AND (carboxyl OR acid Or phosphoric OR sulfonic) with ("mmol/kg" OR "mol/kg" Or "mmol/g" OR "mol/g" or "mol" adj "per" adj "g" OR "mol" adj "per" adj "kg" OR "mmol" adj "per" adj "g" OR "mmol" adj "per" adj "kg")	US-PGPUB; USPAT	OR	ON	2011/03/02 14:38

S317	0	S314 NOT (S308 Or S309) AND (carboxyl OR acid Or phosphoric OR sulfonic) SAME ("mmol/kg" OR "mol/kg" Or "mmol/g" OR "mol/g" or "mol" adj "per" adj "g" OR "mol" adj "per" adj "kg" OR "mmol" adj "per" adj "g" OR "mmol" adj "per" adj "kg")	US-PGPUB; USPAT	OR	ON	2011/03/02 14:39
S318	4103	((oil OR solvent Or non\$2aqueous Or non adj aqueous) near5 (ink)) AND (pigment Or metal near2 flake or metal near2 fragment) AND (binder) AND (anhydride)	US-PGPUB; USPAT	OR	ON	2011/03/02 14:39
S319	1909	S318 NOT S305	US-PGPUB; USPAT	OR	ON	2011/03/02 14:39
S320	6	S319 AND (carboxyl OR acid Or phosphoric OR sulfonic) with ("mmol/kg" OR "mol/kg" Or "mmol/g" OR "mol/g" or "mol" adj "per" adj "g" OR "mol" adj "per" adj "kg" OR "mmol" adj "per" adj "g" OR "mmol" adj "per" adj "kg")	US-PGPUB; USPAT	OR	ON	2011/03/02 14:40
S321	6099	((oil OR solvent Or non\$2aqueous Or non adj aqueous) near5 (ink)) AND (pigment Or metal near2 flake or metal near2 fragment) AND (binder Or resin Or copolymer) AND (anhydride)	US-PGPUB; USPAT	OR	ON	2011/03/02 14:41
S322	2828	S321 NOT S305	US-PGPUB; USPAT	OR	ON	2011/03/02 14:41
S323	12	S322 AND (carboxyl OR acid Or phosphoric OR sulfonic) with ("mmol/kg" OR "mol/kg" Or "mmol/g" OR "mol/g" or "mol" adj "per" adj "g" OR "mol" adj "per" adj "kg" OR "mmol" adj "per" adj "g" OR "mmol" adj "per" adj "kg")	US-PGPUB; USPAT	OR	ON	2011/03/02 14:41
S324	27	S322 AND (resin OR binder or copolymer or polymer) with ("mmol/kg" OR "mol/kg" Or "mmol/g" OR "mol/g" or "mol" adj "per" adj "g" OR "mol" adj "per" adj "kg" OR "mmol" adj "per" adj "g" OR "mmol" adj "per" adj "kg")	US-PGPUB; USPAT	OR	ON	2011/03/02 15:04
S325	4888	(ink).ab. AND (pigment Or metal near2 flake or metal near2 fragment) AND (binder Or resin Or copolymer) AND (anhydride)	US-PGPUB; USPAT	OR	ON	2011/03/02 15:05
S326	2309	S325 NOT S305	US-PGPUB; USPAT	OR	ON	2011/03/02 15:05
S327	17	S326 AND (resin OR binder or copolymer or polymer) with ("mmol/kg" OR "mol/kg" Or "mmol/g" OR "mol/g" or "mol" adj "per" adj "g" OR "mol" adj "per" adj "kg" OR "mmol" adj "per" adj "g" OR "mmol" adj "per" adj "kg")	US-PGPUB; USPAT	OR	ON	2011/03/02 15:06

S328	2199	((523/160) or (523/161)).CCLS.	US-PGPUB; USPAT	OR	OFF	2011/03/02 15:07
S329	718	S328 AND (pigment Or metal near2 flake or metal near2 fragment) AND (binder Or resin Or copolymer) AND (anhydride)	US-PGPUB; USPAT	OR	ON	2011/03/02 15:07
S330	25	S329 AND (resin OR binder or copolymer or polymer) with ("mmol/kg" OR "mol/kg" Or "mmol/ g" OR "mol/g" or "mol" adj "per" adj "g" OR "mol" adj "per" adj "kg" OR "mmol" adj "per" adj "g" OR "mmol" adj "per" adj "kg")	US-PGPUB; USPAT	OR	ON	2011/03/02 15:07
S331	1	("6261353").PN.	US-PGPUB; USPAT	OR	OFF	2011/03/02 15:08
S332	30	("5085698"   "5172133"   "5221334"   "5549740"   "5571311"   "5618338"   "5624484"   "5805190"   "5985975"   "6020397"   "6059868"   "6084619").PN. OR ("6261353").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/03/02 15:08
S333	2	S332 AND (pigment) AND (ink) AND (anhydride)	US-PGPUB; USPAT; USOCR	OR	OFF	2011/03/02 15:09
S334	1	("5672410").PN.	US-PGPUB; USPAT	OR	OFF	2011/03/02 15:49
S335	1	("6467096").PN.	US-PGPUB; USPAT	OR	OFF	2011/03/02 15:50
S336	1	("6476096").PN.	US-PGPUB; USPAT	OR	OFF	2011/03/02 15:51
S337	1	("6759466").PN.	US-PGPUB; USPAT	OR	OFF	2011/03/02 16:26
S338	1	("6384151").PN.	US-PGPUB; USPAT	OR	OFF	2011/03/02 16:31
S339	1	"11/980271"	US-PGPUB; USPAT; USOCR	OR	OFF	2011/03/02 17:30
S340	4	"11/486488"	US-PGPUB; USPAT; USOCR	OR	OFF	2011/03/02 17:51
S341	7	("mmol/kg" OR "mol/kg" Or "mmol/ g" OR "mol/g" or "mol" adj "per" adj "g" OR "mol" adj "per" adj "kg" OR "mmol" adj "per" adj "g" OR "mmol" adj "per" adj "kg") with (styrene) with (copolymer) AND (oil OR solvent Or non\$2aqueous Or non adj aqueous) near5 (ink) AND (pigment)	US-PGPUB; USPAT	OR	ON	2011/03/03 08:10
S342	7	("mmol/kg" OR "mol/kg" Or "mmol/ g" OR "mol/g" or "mol" adj "per" adj "g" OR "mol" adj "per" adj "kg" OR "mmol" adj "per" adj "g" OR "mmol" adj "per" adj "kg") with (styrene) with (copolymer) AND (oil OR solvent Or non\$2aqueous Or non adj aqueous) near5 (ink)	US-PGPUB; USPAT	OR	ON	2011/03/03 08:11



S343	7	("mmol/kg" OR "mol/kg" Or "mmol/g" OR "mol/g" or "mol" adj "per" adj "g" OR "mol" adj "per" adj "kg" OR "mmol" adj "per" adj "g" OR "mmol" adj "per" adj "kg") with (styrene) with (copolymer Or resin Or polymer) AND (oil OR solvent Or non\$2aqueous Or non adj aqueous) near5 (ink)	US-PGPUB; USPAT	OR	ON	2011/03/03 08:11
S344	7	("mmol/kg" OR "mol/kg" Or "mmol/g" OR "mol/g" or "mol" adj "per" adj "g" OR "mol" adj "per" adj "kg" OR "mmol" adj "per" adj "g" OR "mmol" adj "per" adj "kg") with (styrene) with (copolymer Or resin Or polymer or binder) AND (oil OR solvent Or non\$2aqueous Or non adj aqueous) near5 (ink)	US-PGPUB; USPAT	OR	ON	2011/03/03 08:11
S345	8	("mmol/kg" OR "mol/kg" Or "mmol/g" OR "mol/g" or "mol" adj "per" adj "g" OR "mol" adj "per" adj "kg" OR "mmol" adj "per" adj "g" OR "mmol" adj "per" adj "kg") with (styrene) with (copolymer Or resin Or polymer or binder) AND (oil OR solvent Or non\$2aqueous Or non adj aqueous) with (ink)	US-PGPUB; USPAT	OR	ON	2011/03/03 08:11
S346	211	("mmol/kg" OR "mol/kg" Or "mmol/g" OR "mol/g" or "mol" adj "per" adj "g" OR "mol" adj "per" adj "kg" OR "mmol" adj "per" adj "g" OR "mmol" adj "per" adj "kg") with (copolymer Or resin Or polymer or binder) AND (oil OR solvent Or non \$2aqueous Or non adj aqueous) with (ink)	US-PGPUB; USPAT	OR	ON	2011/03/03 08:12
S347	48	("mmol/kg" OR "mol/kg" Or "mmol/g" OR "mol/g" or "mol" adj "per" adj "g" OR "mol" adj "per" adj "kg" OR "mmol" adj "per" adj "g" OR "mmol" adj "per" adj "kg") with (copolymer Or resin Or polymer or binder) AND ((oil OR solvent Or non \$2aqueous Or non adj aqueous) with (ink)).ab.	US-PGPUB; USPAT	OR	ON	2011/03/03 08:13
S348	163	S346 NOT S347	US-PGPUB; USPAT	OR	ON	2011/03/03 08:14
S349	37	("mmol/kg" OR "mol/kg" Or "mmol/g" OR "mol/g" or "mol" adj "per" adj "g" OR "mol" adj "per" adj "kg" OR "mmol" adj "per" adj "g" OR "mmol" adj "per" adj "kg") with (copolymer Or resin Or polymer or binder) AND (oil OR solvent Or non \$2aqueous Or non adj aqueous) with (ink)	EPO; JPO; DERWENT	OR	ON	2011/03/03 08:17

S350	248	("mmol/kg" OR "mol/kg" Or "mmol/g" OR "mol/g" or "mol" adj "per" adj "g" OR "mol" adj "per" adj "kg" OR "mmol" adj "per" adj "g" OR "mmol" adj "per" adj "kg") with (copolymer Or resin Or polymer or binder OR carboxyl OR phosphoric Or sulfonic) AND (oil OR solvent Or non\$2aqueous Or non adj aqueous) with (ink)	US-PGPUB; USPAT	OR	ON	2011/03/03 08:19
S351	200	S350 NOT S347	US-PGPUB; USPAT	OR	ON	2011/03/03 08:19
S352	191	("mmol/kg" OR "mol/kg" Or "mmol/g" OR "mol/g" or "mol" adj "per" adj "g" OR "mol" adj "per" adj "kg" OR "mmol" adj "per" adj "g" OR "mmol" adj "per" adj "kg") with (copolymer Or resin Or polymer or binder OR carboxyl OR phosphoric Or sulfonic) AND (oil OR solvent Or non\$2aqueous Or non adj aqueous) near5 (ink)	US-PGPUB; USPAT	OR	ON	2011/03/03 08:29
S353	146	S352 NOT S347	US-PGPUB; USPAT	OR	ON	2011/03/03 08:29
S354	843	("mmol/kg" OR "mol/kg" Or "mmol/g" OR "mol/g" or "mol" adj "per" adj "g" OR "mol" adj "per" adj "kg" OR "mmol" adj "per" adj "g" OR "mmol" adj "per" adj "kg") with (copolymer Or resin Or polymer or binder OR carboxyl OR phosphoric Or sulfonic) AND (oil OR solvent Or non\$2aqueous Or non adj aqueous) near5 (ink OR coating)	US-PGPUB; USPAT	OR	ON	2011/03/03 08:31
S355	623	S354 NOT (S347 Or S350 OR S351 OR S352 OR S353)	US-PGPUB; USPAT	OR	ON	2011/03/03 08:31
S356	1055	("mmol/kg" OR "mol/kg" Or "mmol/g" OR "mol/g" or "mol" adj "per" adj "g" OR "mol" adj "per" adj "kg" OR "mmol" adj "per" adj "g" OR "mmol" adj "per" adj "kg" OR (("mmol" OR "mol") near2 ( "g" or "kg"))) with (copolymer Or resin Or polymer or binder OR carboxyl OR phosphoric Or sulfonic) AND (oil OR solvent Or non\$2aqueous Or non adj aqueous) with (ink)	US-PGPUB; USPAT	OR	ON	2011/03/03 08:33
S357	807	S356 NOT S350	US-PGPUB; USPAT	OR	ON	2011/03/03 08:33
S358	57	S357 AND ((oil OR solvent Or non \$2aqueous Or non adj aqueous) with (ink) ).ab.	US-PGPUB; USPAT	OR	ON	2011/03/03 08:34
S359	750	S357 NOT S358	US-PGPUB; USPAT	OR	ON	2011/03/03 08:34

S360	19353	("mmol/kg" OR "mol/kg" Or "mmol/g" OR "mol/g" or "mol" adj "per" adj "g" OR "mol" adj "per" adj "kg" OR "mmol" adj "per" adj "g" OR "mmol" adj "per" adj "kg" OR (("mmol" OR "mol") near2 ( "g" or "kg")))) with (molecular near2 weight)	US-PGPUB; USPAT	OR	ON	2011/03/03 08:51
S361	408	S359 NOT S360	US-PGPUB; USPAT	OR	ON	2011/03/03 08:51
S362	464	("mmol/kg" OR "mol/kg" Or "mmol/g" OR "mol/g" or "mol" adj "per" adj "g" OR "mol" adj "per" adj "kg" OR "mmol" adj "per" adj "g" OR "mmol" adj "per" adj "kg" OR (("mmol" OR "mol") near2 ( "g" or "kg")))) with (copolymer Or resin Or polymer or binder OR carboxyl OR phosphoric Or sulfonic) AND (ink). ab.	US-PGPUB; USPAT	OR	ON	2011/03/03 08:54
S363	275	S362 NOT (S359 OR S361)	US-PGPUB; USPAT	OR	ON	2011/03/03 08:54
S364	262	S363 AND (solvent)	US-PGPUB; USPAT	OR	ON	2011/03/03 08:54
S365	2089940	water	US-PGPUB; USPAT	OR	ON	2011/03/03 08:55
S366	290112	(water).ab.	US-PGPUB; USPAT	OR	ON	2011/03/03 08:55
S367	138	S364 NOT S366	US-PGPUB; USPAT	OR	ON	2011/03/03 08:55
S368	5975	(aqueous Or water OR water \$2based OR water adj based) near5 (ink near2 composition)	US-PGPUB; USPAT	OR	ON	2011/03/03 10:34
S369	1458	S368 and (binder Or resin Or copolymer Or polymer) AND (pigment) AND (metallic Or metal) with (pigment)	US-PGPUB; USPAT	OR	ON	2011/03/03 10:35
S370	1458	S368 and (binder Or resin Or copolymer Or polymer) AND (pigment) AND (metallic Or metal Or leafing OR non\$2leafing OR non adj leafing) with (pigment)	US-PGPUB; USPAT	OR	ON	2011/03/03 10:35
S371	19	S368 and (binder Or resin Or copolymer Or polymer) AND (pigment) AND (metallic Or metal Or leafing OR non\$2leafing OR non adj leafing) with (pigment) AND (metallic Or metal Or leafing OR non\$2leafing OR non adj leafing) with (pigment) with (thickness) with (diameter)	US-PGPUB; USPAT	OR	ON	2011/03/03 10:36

S372	122	S368 and (binder Or resin Or copolymer Or polymer) AND (pigment) AND (metallic Or metal Or leafing OR non\$2leafing OR non adj leafing) with (pigment) AND (metallic Or metal Or leafing OR non\$2leafing OR non adj leafing) with (pigment) with (thickness Or diameter OR size)	US-PGPUB; USPAT	OR	ON	2011/03/03 10:37
S373	103	S372 NOT S371	US-PGPUB; USPAT	OR	ON	2011/03/03 10:37
S374	92	S368 and (binder Or resin Or copolymer Or polymer) AND (pigment) AND (metallic Or metal Or leafing OR non\$2leafing OR non adj leafing) with (pigment) AND (metallic Or metal Or leafing OR non\$2leafing OR non adj leafing) with (pigment) with (thickness Or diameter OR size) with (microns OR ".mu.m" OR "nm")	US-PGPUB; USPAT	OR	ON	2011/03/03 10:38
S375	73	S374 NOT S371	US-PGPUB; USPAT	OR	ON	2011/03/03 10:38
S376	0	S368 and (binder Or resin Or copolymer Or polymer) AND (pigment) AND (metallic Or metal Or leafing OR non\$2leafing OR non adj leafing) with (pigment) AND (metallic Or metal Or leafing OR non\$2leafing OR non adj leafing) with (pigment) with (aspect adj ratio)	US-PGPUB; USPAT	OR	ON	2011/03/03 10:44
S377	46	S368 and (binder Or resin Or copolymer Or polymer) AND (pigment) AND (metallic Or metal Or leafing OR non\$2leafing OR non adj leafing) with (pigment) AND (metallic Or metal Or leafing OR non\$2leafing OR non adj leafing OR pigment) with (aspect adj ratio)	US-PGPUB; USPAT	OR	ON	2011/03/03 10:44
S378	16	S374 NOT (S375 Or S377)	US-PGPUB; USPAT	OR	ON	2011/03/03 10:49
S379	16	S374 NOT (S375 OR S377)	US-PGPUB; USPAT	OR	ON	2011/03/03 10:49
S380	36	S372 NOT (S375 OR S377)	US-PGPUB; USPAT	OR	ON	2011/03/03 10:49
S381	166	S368 and (binder Or resin Or copolymer Or polymer) AND (pigment) AND (metallic Or metal Or leafing OR non\$2leafing OR non adj leafing) with (pigment) AND (metallic Or metal Or leafing OR non\$2leafing OR non adj leafing OR pigment) with (thickness )	US-PGPUB; USPAT	OR	ON	2011/03/03 10:50

S382	97	S368 and (binder Or resin Or copolymer Or polymer) AND (pigment) AND (metallic Or metal Or leafing OR non\$2leafing OR non adj leafing) with (pigment) AND (metallic Or metal Or leafing OR non\$2leafing OR non adj leafing OR pigment) near5 (thickness )	US-PGPUB; USPAT	OR	ON	2011/03/03 10:51
S383	69	S381 NOt S382	US-PGPUB; USPAT	OR	ON	2011/03/03 10:51
S384	97	S368 and (binder Or resin Or copolymer Or polymer) AND (pigment) AND (metallic Or metal Or leafing OR non\$2leafing OR non adj leafing or metal near2 flake) with (pigment) AND (metallic Or metal Or leafing OR non\$2leafing OR non adj leafing OR pigment or metal near2 flake) near5 (thickness )	US-PGPUB; USPAT	OR	ON	2011/03/03 10:53
S385	1	("6617508").PN.	US-PGPUB; USPAT	OR	OFF	2011/03/03 14:58
S386	1	("20020179141").PN.	US-PGPUB; USPAT	OR	OFF	2011/03/03 15:06
S387	1	("6184456").PN.	US-PGPUB; USPAT	OR	OFF	2011/03/03 16:32

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